

Halliday/Resnick/Walker 7e Chapter 25 – Capacitance

2. (a) The capacitance of the system is

$$C = \frac{q}{\Delta V} = \frac{70 \text{ pC}}{20 \text{ V}} = 3.5 \text{ pF}.$$

(b) The capacitance is independent of q ; it is still 3.5 pF.

(c) The potential difference becomes

$$\Delta V = \frac{q}{C} = \frac{200 \text{ pC}}{3.5 \text{ pF}} = 57 \text{ V}.$$

3. (a) The capacitance of a parallel-plate capacitor is given by $C = \epsilon_0 A/d$, where A is the area of each plate and d is the plate separation. Since the plates are circular, the plate area is $A = \pi R^2$, where R is the radius of a plate. Thus,

$$C = \frac{\epsilon_0 \pi R^2}{d} = \frac{(8.85 \times 10^{-12} \text{ F/m}) \pi (8.2 \times 10^{-2} \text{ m})^2}{1.3 \times 10^{-3} \text{ m}} = 1.44 \times 10^{-10} \text{ F} = 144 \text{ pF}.$$

(b) The charge on the positive plate is given by $q = CV$, where V is the potential difference across the plates. Thus,

$$q = (1.44 \times 10^{-10} \text{ F})(120 \text{ V}) = 1.73 \times 10^{-8} \text{ C} = 17.3 \text{ nC}.$$

5. Assuming conservation of volume, we find the radius of the combined spheres, then use $C = 4\pi\epsilon_0 R$ to find the capacitance. When the drops combine, the volume is doubled. It is then $V = 2(4\pi/3)R^3$. The new radius R' is given by

$$\frac{4\pi}{3}(R')^3 = 2 \frac{4\pi}{3} R^3 \quad \Rightarrow \quad R' = 2^{1/3} R.$$

The new capacitance is

$$C' = 4\pi\epsilon_0 R' = 4\pi\epsilon_0 2^{1/3} R = 5.04\pi\epsilon_0 R.$$

With $R = 2.00 \text{ mm}$, we obtain $C = 5.04\pi(8.85 \times 10^{-12} \text{ F/m})(2.00 \times 10^{-3} \text{ m}) = 2.80 \times 10^{-13} \text{ F}.$

7. The equivalent capacitance is given by $C_{eq} = q/V$, where q is the total charge on all the capacitors and V is the potential difference across any one of them. For N identical capacitors in parallel, $C_{eq} = NC$, where C is the capacitance of one of them. Thus, $NC = q/V$ and

Resnick Halliday Walker Solution Capacitance

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